を経ての Imperatorin の生成が block されて，Psoralene から Bergaptol を経ての Isoimperatorin 生成の系列のみが残ったのである。

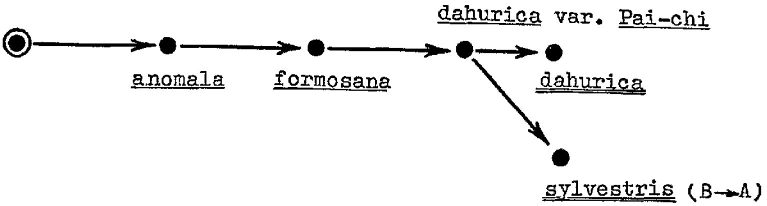

Fig. 4. Phylogenetic relationship between *A. dahurica* and *A. sylvestris.*

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Summary

Angelica archangelica Linn. is surely a precursor of the genus *Angelica.* This fact is proved by the occurrence of osthenol in the root.

On the view-point of chemical constituents, *A. archangelica* var. *himalaica* may be rather an independent species and the phylogenetic relationship of these species is shown as Fig. 2. *A. sylvestris* Linn. is supposed to be differentiated from *A. dahurica* Benth. et Hook. var. *Pai-chi* Kimura, Hata et Yen of China as illustrated in Fig. 3 and 4.

□C. E. B. Bonner (compil.): **Index Hepaticarum,** Pars V, 480 pp. 1965. Published by J. Cramer, Weinheim, Germany. 第 5 巻は *Delavayella* から *Geothalus* 迄の属下に，すべての既知 taxa (種，亜種，変種) を，前巻と同じ型式で ABC 順に並べてある。苔類研究者にとって欠くことの出来ない本書の早い完結が望まれる。

(服 部 新 佐)